

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A planar antenna comprising:
a planar metal-plated, at least on one side, dielectric waveguide, to side walls of which two metal waveguides are adjoining that are connected with the planar waveguide via a periodical array of slots, wherein an array period of the periodical array of slots comprises two slots shifted or inclined with respect to each other, and radiating elements having two symmetry planes are placed in nodes of a rhombic mesh on a surface of the planar waveguide,
wherein the two metal waveguides are not orthogonal to each other, and each of the two symmetry planes is not parallel to either of the two metal waveguides.

2. (Previously Presented) The device of claim 1, in which the planar waveguide has a form of a rhomb.

3. (Previously Presented) The device of claim 1, in which the two metal waveguides have rectangular cross-section.

4. (Previously Presented) The device of claim 3, in which the two metal waveguides are in contact with wide sides of the planar waveguide.

5. (Previously Presented) The device of claim 3, in which the two metal waveguides are in contact with narrow sides of the planar waveguide.

6. (Previously Presented) The device of claim 1, in which the planar waveguide is metal-plated on two sides and the radiating elements are implemented as metallizations having a square or round form.

7. (Previously Presented) The device of claim 1, in which the planar waveguide is metal-plated on one side, and the radiating elements are implemented as metallizations having a square or round form.